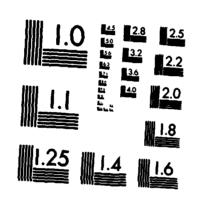


A PRELIMINARY ARCHAEOLOGICAL SURVEY OF A PROPOSED RECREATIONAL DEVELOPMEN (U) CORPS OF ENGINEERS ST PAUL MN ST PAUL DISTRICT P H SALKIN 1978

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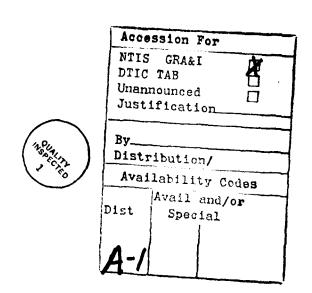


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A PRELIMINARY ARCHAEOLOGICAL SURVEY OF A
PROPOSED RECREATIONAL DEVELOPMENT AND FISH AND
WILDLIFE ENHANCEMENT PROJECT IN LAKE REBECCA,
HASTINGS, MINNESOTA

1978



Philio H. Salkin
U.S. Army Corps of Engineers
St. Paul District

On 26 and 27 June 1978, the author conducted a preliminary archaeological survey of the proposed recreation area on the shores of Lake Rebecca, in liastings, Minnesota. Almost all of the proposed construction will be confined to the east and northeastern shores of the lake, a peninsula of land now largely occupied by Lake Rebecca Fark. The peninsula cuts northwest-southeast across Section 21 of Hastings Township, Township 115N Range 17W, Dakota County, Minnesota. The proposed development includes the construction of roads, parking facilities, a beach area, a hiking trained various structures. The lake will also be raised to elevation 680 fed drowning some of the adjacent shoreline, primarily on its eastern and southern banks.

Lake Rebecca covers approximately 40.5 acres. It lies immediately downstream from Lock and Dam #2 and generally parallels the Mississippi River
Lake Rebecca Park, on the eastern side of the lake is composed of wetlands
and open stands of deciduous trees with little understory. The ground
surface of this area is relatively wet, with many areas of open water or
very marshy conditions, even in those areas covered by stands of trees.
A storage tank park, on formerly agricultural land is to be found abutting
the park. The area on the western shore slopes steeply down to the lake
from the bluffs above. This area is covered by denser stands of mixed
hardwoods and understory. To the north, a levee separates the lake from
Pool #2 of the Lock and Dam complex. To the south, deciduous brush and
trees are found as the park area abutts residential structures.

Many species of fish inhabit the lake, although the quantity has apparently declined in recent years. Waterfowl also inhabit the area and may utilize the lake in the course of migration. Various mammalian species such as the white-tailed deer, racoon, grey squirrel, muskrat and beaver may also be found (U.S. Army Corps of Engineers Report 1978 27-31).

A number of both historic and prehistoric sites are recorded in the Hastings area, including several buildings which have been nominated for inclusion or already placed on the National Historic Register. However, no known sites are located in the proposed project area. Several concrete foundations on the peninsula were surveyed to ascertain their historic value.

Methods

This survey was designed to provide a preliminary evaluation of the archaeological and historic potential of the Lake Rebecca Park area prior to the proposed construction. Of special interest was an evaluation of the areas to be flooded and the foundations on the eastern side of the lake in the park. A walking survey was conducted, and a number of test units were excavated to assess the soil conditions. Two of these units were excavated near the foundations. These test units were a minimum of 50x500 in size. Careful note was taken of the existing soil horizons.

The Survey

A walking survey of the area revealed that almost the entire Lake Rebecc Park is a very wet area with many pools of open water or marshy stretche Few areas were dry enough to support the weight of the author without some degree of yinking into the wet, sandy alluvium. A test unit was excavated in perhaps the highest, driest portion of the park, a cleared and graded, but never utilized, ballfield. The soil profile was as follows:

Test Unit #1

Size: 70x70cm

Soil Profile: 0-27 cm deep--fill and disturbance

27-42 cm deep--dark yellowish brown sand, 10YR 4/4

42-128cm +deep--dark brown sand, 10YR 4/3

groundwater at 124cm deep

shells of pelycopods recovered beginning approximately

100cm deep

A second test unit was excavated in the woods approximately 50 meters west, and 20 meters north of the entrance gate to the park. This soil profile looked as follows:

Test Unit #2

Size: 60x60cm

Soil Profile: 0-8cm deep--sand with organic stains

8-25cm deep--light brown sand

25-100cm +deep--darker brown sand, very wet no Munsell colors taken due to poor light

Two other test units were excavated on the northeastern shore of the lake These had sandy horizons with groundwater at a shallow depth.

It would appear that the character of the Lake Rebecca Park area as a who may be generalized from the test units excavated. The park is a low, of marshy area of loose, sandy alluvial soils. These conditions would not have encouraged extensive aboriginal or historic occupation of the projection area, although temporary utilization for such activities as fishing was certainly possible. The author must also stress the difficulty in finding sites buried under considerable deposits of alluvium, perhaps well below the present water table. As noted, archaeological sites do exist in the Hastings area. Ms. Hazel Jacobson, a local historian, indicated that at least historic aboriginal groups utilized the area southwest of Lake Rebecca. This area, besides being considerably higher and drier, also has a set of soil horizons based on a bedrock foundation, rather than a soil profile consisting of shifting alluvium. The bluff areas to the well of the lake probably also contain archaeological resources. A purported Indiam trail follows the bluff. However, this area is outside of the pre posed project limits.

In terms of the areas to be drowned, it would appear that archaeological resources would not be likely to be disturbed. On the eastern shore, where most of the flooding will occur, the area is covered almost entirely with marshes. These marshy areas are primarily standing water and wetland vegetation. On the west side of the lakes, only a small area will be flooded. A surface survey of this area indicated that the slope was far too severe to accomodate any archaeological sites, although it is not impossible that materials may have eroded down from possible sites on the bluffs above. Im May 1976 Mr. Dan Bowman, archaeologist for the U.S. Army Corps of Engineers, indicated that a test raise of the alke to elevation c 680 feet would have no adverse effect upon identified cultural resources. The author would concur with that opinion and indicate that in light of the marshy conditions additional archaeological resources are not likely to be found.

In terms of the concrete foundations, two and possible three were identiff. The first, and most complete (see Map #2) consists of a foundation slight. more than 2 meters deep. Its construction consists of fieldstone in a concrete matrix, faced with concrete. A part of the concrete is still painted white. Associated artifacts included iron bedsprings, an iron stove or heater, and recent trash deposits. A test unit excavated approximately 1.5 meters east of the structure revealed the following soil profi

Test Unit A - Foundation #1

Size: 50x50cm

Soil Profile: 0-20cm deep--sand with disturbance including rusted pieces of iron

20-75cm +deep--sandy-clay loam

no Munsell colors taken due to poor light

A second foundation was discovered approximately 50 meters to the southwes of Foundation #1. This foundation is located in a swath made for the construction of a telephone or power line. Pole #2 of that line stands amid the ruins of the foundation. It is very possible that the construction of this line may have done further damage to this structure. This ruin is in correct position, according to maps, to be the barn associated with Foundation #1, a farmhouse. However, according to pictures taken last summer the barn foundation was in considerably better repair than the foundation discovered by the author. Thus, Foundation #2 either represents an as yet ureported foundation, or the foundation of the barn after recent damage. As in the case of Foundation #1, the construction was of fields to in a concrete matrix with some concrete facing. A test unit was excavated 1 meter to the west of the structure yielding the following soil profile:

Test Unit B - Foundation #2

Size: 50x50cm

Soil Profile: 0-31cm deep--clay with some rust objects and pieces of sawn board, 10YR 2.5/1
31-80cm +deep--sand and small pebbles, 10YR 3/3

It may also be noted that a third possible foundation might be located of the northwestern edge of the ball field, approximately 9 meters west and three meters south of Test Unit #1. This possible structure is represent by a pile of concrete rubble and stone. This may also be material deposing the filling of part of the ballfield and may not represent a structurat all. Several large concrete slabs lay half-buried in the ballfield is self.

It would appear that these structures are not of any great historical importance for several reasons:

- 1) Ms. Hazel Jacobson, the local historian and expert on the buildin of Hastings area, indicates that to her knowledge, no relatively early historic structures were located in what is now Lake Rebecc Park. Indeed, the only early structure with which she was famili was a farmstead located in what is now the storage tank park.
- 2) A review of maps of the Hastings area revealed that the Lake Rebe Park area was surveyed as early as 1857. However, no structures recorded as having been built there. Similarly, no structures we recorded in the area in an 1875 map. Finally, no structures were corded for the area on a series of maps made between 1884 and 192 These maps, made by the Sanborn Company of New York, note all the stone, wood and brick structures in the town.
- 3) The construction of the two foundations tested also indicated that they were probably not early structures in the area. Concrete construction is not likely to be associated with early pioneer occupations. Mr. Nelson (personal communication) of the Minnesota Historical Society has indicated that fieldstone and concrete contion is not likely to be found in this area before the 1890's, and indeed is more likely to be found after the turn of the century.

The excavated test units yielded no materials which could help date thes structures. However, it is unlikely that they date much, if at all, beful 1900 Λ .D.

Summation and Recommendations

In June 1978 the author conducted a preliminary archaeological survey of a proposed recreation area on the shores of Lake Rebecca in Hastings, Minnesota. The area, primarily emcompassed in Lake Rebecca Park, is a low, wet section of alluvial sand. The vegetation consists of spaced deciduous trees or marsh species. On the basis of the physiography of the area and the few test units excavated, it would not appear likely that this area has a great deal of archaeological potential, although it could have been used periodically for such activities as hunting or fishing. Such sites would be difficult to locate due to the usually low density of artifactual material associated with small temporary sites of this nature and because of the wet, swampy conditions of the area.

Several foundations were discovered in the project area. No historical references to the age or significance of these structures could be found On the basis of the existing literature, maps, local informants and the construction techniques utilized, it would not appear likely that these foundation represent either early or significant structures in the Hasti area.

Curation

No archaeological materials were recovered during the course of this sur Notes are curated by the author at the U.S. Army Corps of Engineers offi in St. Paul, Minnesota.

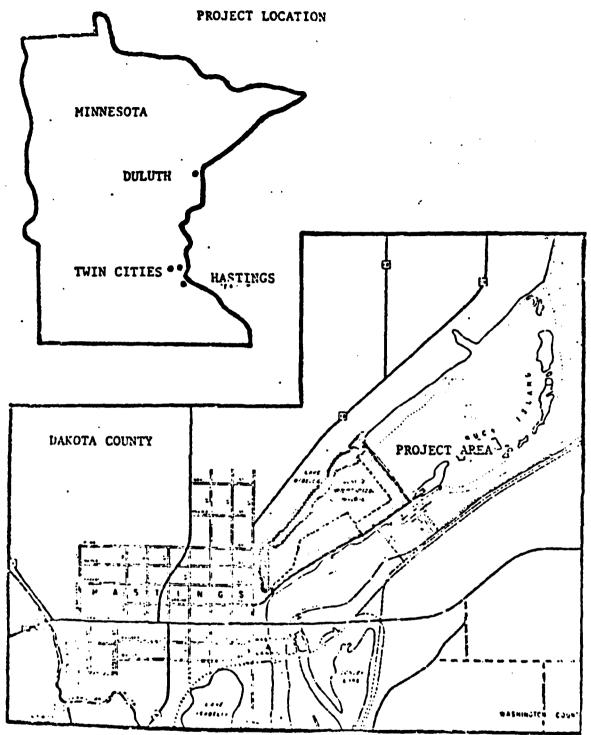
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St. Paul District.

Other Sources

Mr. Charles Nelson (personal communication)

Map Library of the Minnesota Historical Society



Map #1 - The Lake Rebecca Project Area in Hastings, Minnesota

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